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**REMARKS/ARGUMENTS**

This Response does not cancel or amend any of the pending claims. In addition, no new claims are being added. Further, it is believed that this Response is being filed within the shortened statutory period for response. Consequently, it is believed that no additional PTO fees have been generated by this filing. If it is determined, however, that fees are due in this application, the Commissioner is hereby authorized to charge Deposit Account No. 18-1722 in the amount of such fees.

Sections 3 and 4 of the Office Action reject claims 13, 14, 20 and 25 under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 5,732,002 of Lee et al. (Lee). Sections 5 and 6 of the Office Action reject claim 15 under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,732,002 of Lee et al. in view of U.S. Patent No. 5,781,063 of Kub et al. In addition, Section 7 of the Office Action rejects claim 16 under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,732,002 of Lee et al. in view of U.S. Patent No. 5,570,379 of Sasaki et al. Thus, all of the rejections rely on the application of the Lee reference.

Applicant believes that the claims are allowable over the stated rejections. For example, the pending claims are all directed to a "pre-decimated integrator filter section" or a "method for performing a pre-decimated cascaded integration in a filter section."

The Lee reference does not disclose a pre-decimated filter section or a method for performing a pre-decimated cascaded integration.

Figure 2 of Lee, for example, is directed to a filter that uses decimators. Figure 2 of Lee, however, performs the decimation (see 50, Fig. 2) after the integrator stage (see 42, Fig. 2). As such, Figure 2 does not present a pre-decimated filter.

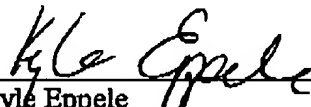
By way of further example, Figure 3 of Lee does not include any decimators. Further, the interpolators of Figure 3 are located prior to each of the integrator stages. The structure of Figures 2 and 3 differs in other respects as well. For example, the location of the gain elements relative to the integrators is different.

Thus, the cited passage at column 4, lines 29-32, of Lee cannot teach a pre-decimated integrator filter section that outputs data equivalent to data that would be output by a post-decimated integrator filter section having an equal number of integrator stages. The cited passage merely points out a difference between Figures 2 and 3. The cited passage contains no teaching as to whether the outputs of Figures 2 and 3 would be equivalent. In any event, as shown above, Figures 2 and 3 do not compare a pre-decimated filter section to a post-decimated filter section. Consequently, Applicant believes that the pending claims should be found allowable over the stated rejections.

Applicant believes that the above remarks fully address the issues and rejections presented in the Office Action and establish that the pending claims are allowable over the stated rejections. Accordingly, issuance of a Notice of Allowance is respectfully requested.

Respectfully Submitted,

By

  
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